

Okan Bursa

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Education

- 2009–2019 **Ph.D.**, *Department of Computer Engineering, Ege University Graduate School of Natural and Applied Sciences, Ege University, Izmir, Turkey.*
GPA : 90/100
Finding Semantic Similarity in Social Networks by Using Preference Management and Profiling.
- 2005–2008 **M.Sc.**, *Department of Computer Engineering, Ege University Graduate School of Natural and Applied Sciences, Ege University, Izmir, Turkey.*
GPA : 86,57/100
Analysis of Semantic Web Portal Technologies and Developing an Applications.
- 2001–2005 **B.Sc.**, *Department of Computer Engineering, Faculty of Electrical and Electronics Engineering, Istanbul Technical University, Istanbul, Turkey.*
Graduation Project : Intrusion Detection on Servers by using Artificial Neural Networks.
- 1998–2001 **High School**, *High School of Science, Izmir Turk College, Izmir, Turkey.*
GPA : 4,71/5.00, Highest Score of College in 2001 National University Exams : 183,813, National Ranking : 1081.

PhD Thesis

- Title Finding Semantic Similarity in Social Networks by Using Preference Management and Profiling
- Supervisor Assoc. Prof. Dr. Murat Osman ÜNALIR

Abstract A new method to find semantic similarities among people is introduced by modeling the behaviors of people in social networks within preferences. In order to apply this method in social networks, an ontology-based entity semantification method that provides matching of personal preferences with entities in ontologies has been defined. The success of this method is tested with similar works in literature and it is concluded that our method gave the best results. As a result of semantification, an integrated ontology dataset was created in which personal preferences are represented as entities inside ontologies and stored in personal profiles. Social semantic similarity method is applied to selected samples of this dataset. The success of the method was tested by simple similarity obtained by using non-semantic data and page similarity obtained by using semi-structural data.

Publications

Okan Bursa, Özgü Can, Emine Sezer, and Murat Osman Ünalır. Enriching preferences using dbpedia and wordnet. In *Research Conference on Metadata and Semantics Research*, pages 94–103. Springer, 2016.

Okan Bursa, Özgü Can, and Murat Osman Ünalır. User profiling for policy management in social communities. In *COMPSAC*, pages 348–349, 2012.

Okan Bursa, Emine Sezer, Ozgu Can, and Murat Osman Unalir. Using foaf for interoperable and privacy protected healthcare information systems. In *Research Conference on Metadata and Semantics Research*, pages 154–161. Springer, 2014.

Okan Bursa, Emine Sezer, Ozgü Can, and Murat Osman Unalir. Blood. health. foaf: Extending foaf with blood ontology. In *2017 IEEE 41st Annual Computer Software and Applications Conference (COMPSAC)*, volume 2, pages 102–106. IEEE, 2017.

Okan Bursa and Murat Osman Unalir. Semantic web technologies and applications. *National Software Engineering Symposium*, 2007.

Okan Bursa and Murat Osman Unalir. Profile management inside semantic web portals. *National Software Quality and Software Development Tools Symposium*, 2008.

Okan Bursa and Murat Osman Ünalır. Sosyal ağlar ve profil yönetimine etkileri. *Yayınlanamamış Bildiri, Akademik Bilişimin Farklı Boyutları, Muğla Üniversitesi, Muğla*, 2010.

Özgü CAN, Okan BURSA, and Murat Osman ÜNALIR. Personalizable ontology based access control. *Gazi University Journal of Science*, 23(4):465–474, 2010.

Ozgu Can, Emine Sezer, Okan Bursa, and Murat Osman Unalir. Personalized vaccination using ontology based profiling. In *Research Conference on Metadata and Semantic Research*, pages 213–224. Springer, 2013.

Ozgu Can, Emine Sezer, Okan Bursa, and Murat Osman Ünalir. Nesnelerin interneti ve güvenli bir sağlık bilgi modeli önerisi. In *4th International Symposium on Innovative Technologies in Engineering and Science (ISITES2016) 3-5 Nov 2016 Alanya/Antalya-Turkey*, 2016.

Ozgu Can, Emine Sezer, Okan Bursa, and Murat Osman Unalir. Comparing relational and ontological triple stores in healthcare domain. *Entropy*, 19(1):30, 2017.

Ozgu Can, Murat Osman Unalir, Emine Sezer, Okan Bursa, and Batuhan Erdogan. An ontology based approach for host intrusion detection systems. In *Research Conference on Metadata and Semantics Research*, pages 80–86. Springer, 2017.

Özgü Can, Murat Osman Ünalır, Emine Sezer, Okan Bursa, and Batuhan Erdoğan. A semantic web enabled host intrusion detection system. *International Journal of Metadata, Semantics and Ontologies*, 13(1):68–74, 2018.

Emine Sezer, Özgü Can, Okan Bursa, and Murat Osman Ünalır. Sağlık bilgi sistemlerinde ontoloji tabanlı bir yaklaşım: Kan testi ontolojisi örneği. *Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi*, 22(5):367–375, 2016.

Emine Sezer, Özgü Can, Murat Osman Ünalır, and Okan Bursa. An ontology-based integration approach for medical information standards. In *2017 25th Signal Processing and Communications Applications Conference (SIU)*, pages 1–4. IEEE, 2017.

Dilek Tapucu, Özgü Can, Okan Bursa, and Murat Osman Ünalır. Metamodeling approach to preference management in the semantic web. 2008.

Murat Osman Ünalır, Özgü Can, Emine Sezer, Okan Bursa, and Handan Ak. Big data aware diabetes management: Requirements, solutions and reviews. In *2017 International Artificial Intelligence and Data Processing Symposium (IDAP)*, pages 1–6. IEEE, 2017.

Experience

Vocational

December 2005–current **Research Assistant**, *Department of Computer Engineering, Faculty of Engineering, Ege University, Izmir, Turkey.*

Assistant of Digital Electronics Course, 2006-current

Assistant of Electrical Circuits Course, 2006-current

Assistant of Embedded Systems Course, 2012

Assistant of Logic Circuits Course, 2013, 2015, 2017, 2018

Assistant of Microcontroller-Based System Design Course, 2017-current

Assistant of Digital Computer Design Course, 2013-current

Assistant of Microcontroller Course, 2006-current

Assistant of Database Management Course, 2014, 2016, 2017, 2018

Assistant of Ontology Engineering Course, 2013, 2014, 2016

Assistant of Windows Programming Course, 2015, 2016

Assistant of Algorithms & Programming Course, 2015, 2016

Assistant and Instructor of PHP Programming Course, 2012-2015

Assistant and Instructor of Internet Programming Course, 2012-2015

2005 Sep–Dec **Web Programmer**, *Netport IT Services Co., Izmir, Turkey.*

Developing web pages and admin panels with ASP.NET 2.0 and C# with SQL 2005

2003–2004 **Server Admin**, *Istanbul Technical University Radio, Istanbul, Turkey.*

Web Server and Voice Streaming Maintenance and Admin inside University Radio using Microsoft Server 2003

Internships

2005 Jun–Aug **Mobile Application Developer**, *Bosch Siemens Home Appliances Ltd., Istanbul, Turkey.*

Web, Desktop and Mobile Applications Development with C#, V.Basic and SQL 2005

2003 Jul–Aug **Computer Engineer**, *Turkish National Television, Izmir, Turkey.*

Constructing of the uplink project of HD television transmission

2003 Jun–Jul **Web Admin**, *IT Research Center, Ege University, Izmir, Turkey.*

Developing web pages with HTML, Computer and Server Maintenance and Web Server Conguration with IPTables

Projects

2018-2020 **Development of a Privacy Framework for Ontology-Based Data Access**, *Ege University Scientific Research Project, Izmir, Turkey.*

Researcher

2016-2019 **Development of Personalized Internet of Things Platform for Healthcare Domain**, *Ege University Scientific Research Project*, Izmir, Turkey.
Researcher

2016-2019 **Diabetes Management Platform: Developing a Big data Aware Multi-Partner and Collaborative Data Management Infrastructure**, *Ege University Scientific Research Project*, Izmir, Turkey.
Researcher

2013-2015 **Performance Comparison of Ontology Dataware Houses** , *Ege University Scientific Research Project*, Izmir, Turkey.
Researcher

2014-2016 **Blood Ontology Development for Personalized Healthcare Data in Healthcare Information Systems**, *Ege University Scientific Research Project*, Izmir, Turkey.
Researcher

2012-2014 **Preference-Based Personalized Recommendation System Development**, *Ege University Scientific Research Project*, Izmir, Turkey.
Researcher

2010-2012 **Semantic Web Technologies Based Vaccine Information System** , *Ege University Scientific Research Project*, Izmir, Turkey.
Researcher

[Attended Scientific Meetings](#)

July 2017 **The 12th IEEE International COMPSAC Workshop on E-Health Systems and Semantic Web**, Turin, Italy.
Oral Presentation

February 2017 **Akademik Bilişim 2017**, Aksaray, Turkey.
Oral Presentation

November 2016 **10th International Conference on Metadata and Semantics Research**, Göttingen, Germany.
Oral Presentation

February 2015 **Akademik Bilişim 2015**, Eskişehir, Turkey.
Oral Presentation

November 2014 **8th International Conference on Metadata and Semantics Research**, Karlsruhe, Germany.
Oral Presentation

July 2012 **36th Annual IEEE International Computer Software and Applications Conference (COMPSAC)**, Izmir, Turkey.
Oral Presentation

[Invited Congress and Symposium Activities](#)

2017 **COMPSAC 2017**, *Session Moderator*, Turin, Italy.

Citations

Total Citations 14
(WOS)

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Computer skills

Operating Systems

All Microsoft Operating Systems, Ubuntu, MacOSX

Programming Languages

Procedural C, Pascal, QBasic, Fortran

Object-Oriented Python, C++, Java, C# XP, SCRUM and Test-Driven Development

Logic LPA-Prolog, CLIPS, SWRL

Web ASP.NET with .NET 4.5 framework, JSP, PHP

Tools

Database Oracle 12g, SQL 2017, Derby, Access, MySQL 8.0, PostgreSQL

Environment IntelliJ Idea, Eclipse, Microsoft Visual Studio, Zend

Ontology Development Altova, Protege

Ontology Manipulation Apache Jena 3.1.0, Jess, SESAME API, OWL API Online Repository Development, Query with SPARQL and Semantic Web Portal Development

Data Warehouses Allegrograph 6.5, ORACLE 12g

Obligations

Military Obligation Completed between 4.2010 and 10.2010 as private

Languages

Turkish Native

English Near-Excellent *TOEFL IBT : 84/120, Reading:17/30, Listening:26/30, Speaking:17/30, Writing:24/30.*

German Beginner